

10/16/01

j1054 U.S. PTO

996 U.S. PTO

First Named Inventor: Qilian Liang

## Method, Device and Computer Program For A Demodulator Using A Fuzzy Adaptive Filter (FAC) And Decision Feedback

10/16/01

Sir:

Transmitted herewith for filing is the patent application including:

1. ☒ Specification [Total Pages 33]
2. ☒ Drawings [Total Sheets 9]
3. ☒ Oath or Declaration [Total Pages 2]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from prior application (37 CFR 1.63d)  
(for continuation or divisional application)
  - i. ☐ DELETION OF INVENTORS  
Signed Statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

4. ☒ Assignment (cover sheet and documents)
5. ☒ Power of Attorney (included in Oath or Declaration)
6. ☐ Information Disclosure Statement (IDS/PTO1449)
  - a. ☐ Copies of IDS Citations
7. ☐ Preliminary Amendment
8. ☒ Return Receipt Postcard (MPEP 503)
9. ☐ Certified Copy of Priority Documents  
*(If foreign priority is claimed)*
10. ☐ Other

☐ Continuation      ☐ Divisional      ☐ Continuation-in-part (CIP) of prior application No.

Prior application information: Examiner:

*Group/Art Unit:*

**For CONTINUATION or DIVISIONAL applications only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 3b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

- a. ☐ Amend the Specification by inserting before the first line the following sentence:  
     --            --
- b. ☐ The prior application is assigned to HUGHES ELECTRONICS CORPORATION.
- c. ☐ The power of attorney of the prior application is to \_\_\_\_\_.
- d. ☐ Please cancel claims \_\_\_\_\_ in the prior application before calculating the filing fee below.
- e. ☐ I hereby certify that the attached papers are a true copy of the prior application Serial No. \_\_\_\_\_ as originally filed on \_\_\_\_\_.

**12. FEE TRANSMITTAL:**

	No. Filed		Extra	Rate	Fee
Basic Fee				\$ 740.00	\$ 740.00
Total Claims	34	- 20 =	14 x	\$ 18.00 =	\$ 252.00
Independent Claims	3	- 3 =	0 x	\$ 84.00 =	\$ 0.00
Multiple Dependent Claims			Y (Y/N)	\$ 280.00	\$ 280.00
<b>TOTAL FILING FEE</b>					<b>\$ 1,308.00</b>

Please charge deposit account No. 50-0383 of Hughes Electronics Corporation, El. Segundo, California, in the amount of the Total Filing Fee calculated above. The Commissioner is hereby authorized to charge any additional fees that may be due, or credit any overpayment, to that deposit account.

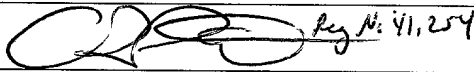
13. The Commissioner is hereby further authorized to charge Deposit Account No. 50-0383, pursuant to 37 CFR 1.25(b), any fees that may properly become due or payable, as set forth in 37 CFR 1.16 and 1.17, for the entire pendency of this application without any additional authorization.

14. This form is being submitted in triplicate.

**15. CORRESPONDENCE ADDRESS:**

Name: Hughes Electronics Corporation  
Patent Docket Administration  
Address: P.O. Box 956  
Bldg. 1, Mail Stop A109  
City/State/Zip: El Segundo, CA 90245-0956

Signature:

 Reg. No. 41,254

Date: 10/16/2001

Name (Print/Type): John T. Whelan, Reg. No. 32,448

Tel: 301-428-7172

Fax: 301-428-2802

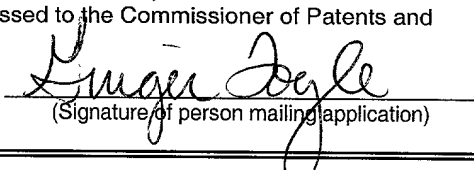
Certification under 37 CFR 1.10 (if applicable)

EJ398429157US  
EXPRESS MAIL Mailing No.

10/16/2001  
Date of Deposit (m/d/yyyy)

I hereby certify that this application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Ginger Fogle  
(Type or printed name of person mailing application)

  
(Signature of person mailing application)

## COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

Attorney Docket No: PD-201153

- ☒ Original  
☐ Continuation  
☐ Division  
☐ Continuation-in-Part  
☐ Supplemental

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **METHOD, DEVICE AND COMPUTER PROGRAM PRODUCT FOR A DEMODULATOR USING A FUZZY ADAPTIVE FILTER (FAC) AND DECISION FEEDBACK**

the specification of which:

(check one) ☒ is attached hereto.  
☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §§119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application that designated at least one country other than the United States of America, listed below and have also identified below any foreign application(s) for patent or inventor's certificate, or of any PCT international application, having a filing date before that of the application on which priority is claimed:

Foreign Application Number	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Claimed	Certified Copy Attached
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

Application Number	Filing Date (MM/DD/YYYY)

I hereby claim the benefit under 35 U.S.C §120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Parent Application or Parent PCT Number	Filing Date (MM/DD/YYYY)	Patent Number (if applicable)

## DECLARATION/POWER OF ATTORNEY

Page 2 of 2

Attorney Docket No: PD-201153

I hereby appoint the following attorneys, or agent and attorneys, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

John T. Whelan	Registration No. 32,448
Craig L. Plastrik	Registration No. 41,254
Michael W. Sales	Registration No. 30,213

**Correspondence Address:**

Name: Hughes Electronics Corporation  
Patent Docket Administration  
Address: P.O. Box 956  
Bldg. 1, Mail Stop A109  
City/State/Zip: El Segundo, CA 90245-0956  
Country: USA  
Telephone: 301-428-5965 Facsimile: 301-428-2802

I hereby declare that all statement made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or Joint Inventor: QILIAN LIANG	Inventor's Signature: <i>Qilian Liang</i>	Date: 8/27/01
Residence (City and State) San Diego, CA	Citizenship China	
Residence Address (Street/City/State/Zip) <del>10240 Camino Ruiz, #176, San Diego, CA 92126</del> 10193 Camino Ruiz, #100, San Diego, CA 92126		
Full Name of Joint Inventor: FRANK ONOCHIE	Inventor's Signature: <i>Frank Onochie</i>	Date: 8/27/01
Residence (City and State) S. Escondido, CA	Citizenship Nigeria	
Residence Address (Street/City/State/Zip) 2035 S. Escondido Blvd., #307, S. Escondido, CA		
Full Name of Joint Inventor: ROMEO VELARDE	Inventor's Signature: <i>Romeo Velarde</i>	Date: 8/30/01
Residence (City and State) San Diego, CA	Citizenship Bolivia	
Residence Address (Street/City/State/Zip) 17243 Russet Street, San Diego, CA 92127		
Full Name of Joint Inventor:	Inventor's Signature:	Date:
Residence (City and State)	Citizenship	
Residence Address (Street/City/State/Zip)		